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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,139	12/13/2001	Yang Gao		4359

7590 10/05/2004  
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EXAMINER

PILLAI, NAMITHA

ART UNIT PAPER NUMBER

2173

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/014,139	Applicant(s) GAO ET AL.	
	Examiner Namitha Pillai	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19, 41-59 and 81-88 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19, 41-59 and 81-88 is/are rejected.
- 7) ☒ Claim(s) 1 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## **DETAILED ACTION**

### ***Specification***

1. The spacing of the lines of the specification is such as to make reading and entry of amendments difficult. New application papers with lines double spaced on good quality paper are required.

### ***Claim Objections***

2. Claim 1 is objected to because of the following informalities: "HTML UI Control" contains acronyms, which have not been previously defined; the acronyms must be explicitly defined at its first occurrence in claim 1. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481

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(Bd. App. 1949). In the present instance, claims 41, 81, 84, 85, 87 and 88 recite the broad recitation “names”, and the claim also recites “name” which is the narrower statement of the range/limitation. The parentheses “(s)” leaves the term “name” indefinite, a more precise definition is necessary.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-19, 41-59 and 81-88 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by “LiveWire Developer’s Guide”, herein referred to as LiveWire.

Referring to claim 1, LiveWire discloses a method for retrieving and editing the data structure of a HTML UI Control (Introduction, page 1, lines 2-3). LiveWire discloses displaying, a HTML UI Control in a Web page within an application window at a client device (Creating database applications, page 3, Figure). LiveWire discloses transmitting, to a first server, an HTTP request, invoking, at the first server or a second server, program code based on the HTTP request to query an information system (Creating database applications, page 1 and page 7, lines 19-25), wherein LiveWire discloses using JavaScript and query code to “request” for data from a database, wherein this HTTP request is transmitted to the “Netscape WWW server” or the “Database server” to retrieve the information that is queried. LiveWire discloses means for querying for information through HTTP “get” requests, wherein program code is invoked at the web server to query an information that is requested by the user (Developing

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applications, page 2, lines 17-21). LiveWire discloses receiving, at the application window, an HTTP response containing the results of the query (Creating database applications, page 7, lines 19-37). LiveWire discloses that transmitting and receiving actions are accomplished without refreshing the Web page displaying the HTML UI Control (Using the LiveWire object framework, page 3, lines 5-13), wherein all steps are conducted by code that is already loaded with the HTML document, wherein LiveWire discusses how JavaScript functions are used to transmit and receive actions, wherein the inclusion of these functions in the HTML document would teach that no refreshing or reloading is necessary for the actions to be carried out (Creating database applications, page 4, lines 20-37). LiveWire clearly teaches a system wherein databases represented as HTML UI Controls can be accessed through a client-server paradigm with JavaScript code. JavaScript code embedded in the HTML documents are used to request and query SQL databases, wherein these queries represented as program codes are invoked to access the needed data. LiveWire further discloses an example wherein the database contains movie data, and through the HTML UI Control, users can query and access information. See Creating database applications, pages 1 and 3-4.

Referring to claims 2-5 and 42-45, LiveWire discloses that the HTML UI Control is a form, grid, listview and a menu (Creating database applications, page 3, Figure and line 3).

Referring to claims 6 and 46, LiveWire discloses that the HTML UI Control is a treeview (Creating database applications, page 4, lines 6-7).

Referring to claims 7 and 47, LiveWire discloses that the HTML UI Control displays at least a portion of a list of items (Creating database applications, page 4, lines 6-7).

Referring to claims 8 and 48, LiveWire discloses that the Web page is contained in a HTML frame (Creating database applications, page 3, Figure).

Referring to claims 9 and 49, LiveWire discloses that the Web page contains a HTML inline frame (Creating database applications, page 4, lines 6-7).

Referring to claims 10 and 50, LiveWire discloses that the application window is a Web browser window (Creating database applications, page 3, Figure).

Referring to claims 11 and 51, LiveWire discloses that the Web page has means for storing the data structure of the HTML UI Control in a JavaScript object (Creating database applications, page 10, lines 13-15).

Referring to claims 12 and 52, LiveWire discloses that the JavaScript object is a multi-dimensional array (Creating database applications, page 10, lines 13-15).

Referring to claims 13 and 53, LiveWire discloses that transmitting and receiving actions are accomplished without the use of Web browser plugins, wherein LiveWire clearly discloses that this is done through JavaScript code embedded in HTML and hence does not rely on plugins (Developing applications, page 1, line 6).

Referring to claims 14 and 54, LiveWire discloses that the transmission of the HTTP request and response is accomplished through a non-persistent HTTP connection (Creating database applications, page 5, lines 35-36 and page 6, lines 1-3).

Referring to claims 15 and 55, LiveWire discloses that the information system is a database (Creating database applications, page 1, lines 1-2).

Referring to claims 16 and 56, LiveWire discloses that the information system is a network domain (Creating database applications, page 1, lines 12-14).

Referring to claims 17 and 57, LiveWire discloses that the information system is a file system (Creating database applications, page 1, lines 9-11).

Referring to claims 18 and 58, LiveWire discloses that the results are evaluated by a JavaScript function accessible by the Web page (Creating database applications, page 13, lines 11-29).

Referring to claims 19 and 59, LiveWire discloses that the evaluation of the JavaScript function results in a visual alteration of the displayed HTML UI Control (Creating database applications, page 13, lines 11-29).

Referring to claim 41, LiveWire discloses a method for retrieving and editing the data structure of a HTML UI Control (Introduction, page 1, lines 2-3). LiveWire discloses displaying, a HTML UI Control in a Web page within an application window at a client device (Creating database applications, page 3, Figure). LiveWire discloses the Web page having means for storing the data structure of the HTML UI Control (Creating database applications, page 10, lines 13-15). LiveWire discloses transmitting, to a first server, an HTTP request containing at least one function name and at least one parameter (Creating database applications, page 1 and page 8, lines 32-34), wherein the program code of the function name resides at a server, the server being the "Netscape WWW Server". LiveWire discloses invoking, at the first server or a second server, the program code to query an information system based on the evaluation of the function names and parameters (Creating database applications, page 10, lines 20-30), wherein the program code is invoked in the "Netscape WWW Server". LiveWire discloses receiving, at the application window, an HTTP response containing the results of the execution of the query upon the information system (Creating database applications, page 7,



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lines 19-37). LiveWire discloses that transmitting and receiving actions are accomplished without refreshing the Web page displaying the HTML UI Control (Using the LiveWire object framework, page 3, lines 5-13), wherein all steps are conducted by code that is already loaded with the HTML document, wherein LiveWire discusses how JavaScript functions are used to transmit and receive actions, wherein the inclusion of these functions in the HTML document would teach that no refreshing or reloading is necessary for the actions to be carried out (Creating database applications, page 4, lines 20-37). LiveWire clearly teaches a system wherein databases represented as HTML UI Controls can be accessed through a client-server paradigm with JavaScript code. JavaScript code embedded in the HTML documents are used to request and query SQL databases, wherein these queries represented as program codes are invoked to access the needed data. LiveWire further discloses an example wherein the database contains movie data, and through the HTML UI Control, users can query and access information. See Creating database applications, pages 1 and 3-4.

Referring to claim 81, LiveWire discloses a system for retrieving and editing the data structure of a HTML UI Control (Introduction, page 1, lines 2-3). LiveWire discloses means for storing the data structure associated with at least one HTML UI Control of at least one Web page in a memory (Creating database applications, page 2, lines 4-5). LiveWire discloses means for executing a query to a remote information system from the Web pages (Creating database applications, page 4, lines 11-12). LiveWire discloses means for returning the results of the query to Web pages and means for processing the results at the Web pages (Creating database applications, page 13, lines 12-30).

Referring to claim 82, LiveWire discloses means for appending data to the data structure stored in the memory (Creating database applications, page 8, lines 25-28).

Referring to claim 83, LiveWire discloses means for searching the data structure stored in memory and for replacing the data of the data structure stored in the memory (Creating database applications, page 8, lines 25-34).

Referring to claim 84, LiveWire discloses means for preparing the necessary parameters of a remote procedure call (RPC) to a specified function at a server (Creating database applications, page 7, lines 25-37). LiveWire also discloses means for packaging the RPC as a HTTP request and means for executing specified function at the server (Developing applications, page 2, lines 15-21).

Referring to claim 85, LiveWire discloses means for preparing the results as at least one parameter of a function call and for packaging the results as a HTTP response and means for returning the HTTP response to the Web pages (Creating database applications, page 7, lines 25-36).

Referring to claim 86, LiveWire discloses packaging the results as at least one delimited string (Creating database applications, page 7, lines 26-27).

Referring to claim 87, LiveWire discloses passing the results to at least one function of the Web pages and executing the function to process the results (Creating database applications, page 7, lines 26-27).

Referring to claim 88, LiveWire discloses parsing at least one delimited string containing the results (Creating database applications, page 13, lines 13-29).

***Conclusion***

5. The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach the method for editing user interface controls.

Responses to this action should be mailed to: Commissioner of Patents and Trademarks, Washington D.C. 20231. If applicant desires to fax a response, central FAX number (703) 872-9306 may be used. NOTE: A Request for Continuation (Rule 60 or 62) cannot be faxed.

Please label "PROPOSED" or "DRAFT" for informal facsimile communications. For after final responses, please label "AFTER FINAL" or "EXPEDITED PROCEDURE" on the document. Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Namitha Pillai whose telephone number is (703) 305-7691 (before October 20, 2000) and (571) 272-4054 (after October 20, 2000). The examiner can normally be reached on 8:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (703) 308-3116 (before October 20, 2000) and (571) 272-4048 (after October 20, 2000).

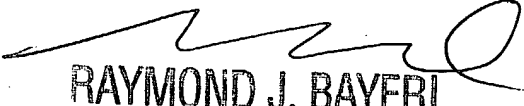
All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly

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signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Namitha Pillai  
Assistant Examiner  
Art Unit 2173  
September 29, 2004



RAYMOND J. BAYERL  
PRIMARY EXAMINER  
ART UNIT 2173